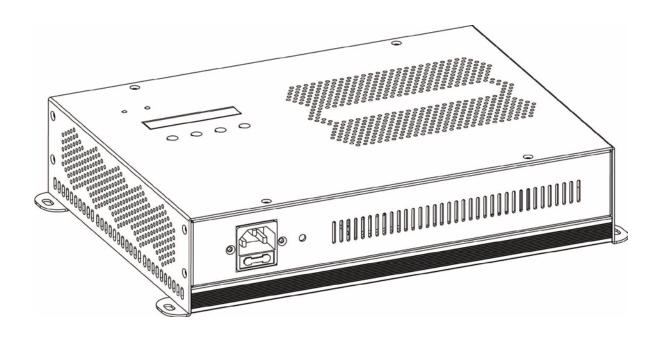
$L\Omega GIC^{TM} 4X36$

User Manual







Edition Notes

The L Ω GICTM 4X36 User Manual Rev. 10 covers the description, safety precautions, installation, programming, operation, and maintenance of the L Ω GICTM 4X36. ILUMINARC® released this edition of the L Ω GICTM 4X36 User Manual Rev. 10 in May 2013.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 inches), double sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content of this document to A4 paper.

Intended Audience

Any person in charge of installing, operating, and/or maintaining the L Ω GICTM 4X36 should read the Guide that shipped with it and this manual in their entirety before installing, operating, or maintaining this product.

Disclaimer

ILUMINARC® believes that the information contained in this manual is accurate in all respects. However, ILUMINARC® assumes no responsibility for any error or omissions in this document. ILUMINARC® reserves the right to revise this document and to make changes from time to time in the content hereof without obligation of ILUMINARC® to notify any person or company of such revision or changes. This does not constitute in any way a commitment by ILUMINARC® to make such changes. ILUMINARC® may issue a revision of this manual or a new edition of it to incorporate such changes.

Document Revision

The L Ω GICTM 4X36 User Manual Rev. 10 supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.



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1. Introduction

This icon indicates useful, although noncritical information.



This icon indicates important

installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.



This icon indicates critical installation,

configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, damage third-party equipment, or cause harm to the user.

The term "DMX" used throughout this document refers to the USITT DMX512-A transmission protocol.

What is Included

- One LΩGICTM 4X36
- One RJ-45 to 3-pin DMX male adapter (input)
- One RJ-45 to 3-pin DMX female adapter (output)
- Four RJ-45 coupler
- One Power Cord
- Warranty Card
- Quick Start Guide

Unpacking Instructions

Immediately upon receiving a product from ILUMINARC®, carefully unpack the carton. Check the contents of the box to ensure that all parts are present and that they are in good condition. If any part appears damaged from shipping, or if the carton shows signs of mishandling, see the Claims section in the Technical Information chapter.

Text Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
"ILUMICON UM"	The name of another publication or manual
<set></set>	A button on the products control panel
Settings	A product function or a menu option
MENU > Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to enter or select in a menu



There are no user serviceable parts inside this product. Any reference to servicing it you may find from now on in this User Manual will only apply to properly ILUMINARC® certified technicians. Do not open the housing or attempt any repairs unless you are certified to do so.

Please refer to all applicable local codes and regulations for the proper installation of this product.

Keep this manual for future consultation. If you sell this product to another user, make sure that they also receive this manual.

In the unlikely event that your LΩGIC™ 4X36 may require service, please contact **ILUMINARC®** Technical Support.

Safety Notes

Please read all the following safety notes carefully because they include important information on how to install, use, and maintain this product safely.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.

Mounting and Installation

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Make sure there are no flammable materials close to this product while operating.

Power and Wiring

- Always make sure that you are connecting this product to the proper voltage, as per the specifications in this manual or on the product's sticker.
- Never connect this product to a dimmer pack.
- Make sure that the power input cable is not cracked, crimped, or damaged.
- Never disconnect this product by pulling or tugging on the power input cable.

Operation

- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!



2. Product Description

The LΩGICTM 4X36 unit is the power supply and control for the LΩGICTM series of devices.

The LΩGICTM 4X36 consists of seven (7) personalities for the RGB mode and five (5) personalities for the SpectraWhiteTM mode, all of which are configurable from the control panel. The output is four RJ-45 type connections. The DMX input and output are on the rear panel and also use a RJ-45 type connection.

Features

- 1, 2, 3, 4, 5, 6, 9, 12, or 15-channel DMX control
- · Operating modes:

RGB

1-channel: RGB, dimmer (no individual RGB adjustments)
3-channel: RGB control (individual RGB adjustments)

4-channel: RGB control, dimmer

6-channel: RGB control, dimmer, color macro, strobe

9-channel: RGB control, dimmer, color macro, strobe, auto + custom, auto speed, zone

selection

12-channel: RGB control, line control

15-channel: RGB control, line control, dimmer, color macro, strobe

SpectraWhite™

1-channel: White dimmer

2-channel: White control (warm + cool)

2-channel: White macro, dimmer

3-channel: White control (warm + cool), dimmer

5-channel: White control (warm + cool), macro, dimmer

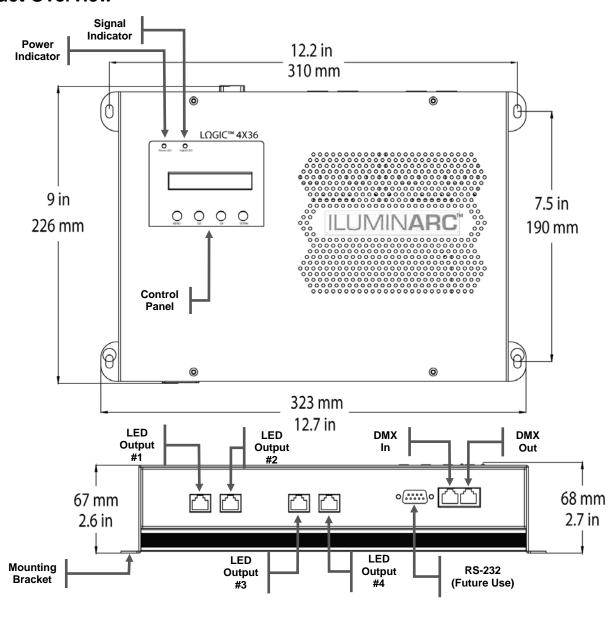
- RGB color mixing with or without DMX control (RGB mode)
- White effects mixing with or without DMX control (SpectraWhiteTM mode)
- Automated and customizable programs (RGB mode)
- Recall auto and custom programs via master/slave or DMX

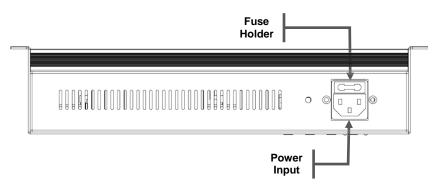
Additional Features

- Master/Slave (RJ-45)
- Static Playing
- · RGB and white color calibration
- · Schedule playback with time clock functions
- · LCD display with password protection



Product Overview







3. Installation

Always connect the LΩGIC™ 4X36 to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect the LΩGIC™ 4X36 to a

rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Make sure to disconnect the products power cord before replacing a blown fuse, and always replace it with a fuse of the same type and rating.

AC Power

The L Ω GICTM 4X36 has an auto-ranging power supply that can work with an input voltage range of 100~240 VAC, 50/60 Hz.

Make sure that you are connecting this product to the proper voltage, as per the specifications in this guide, the product's user manual, or on the product's sticker.

Power Consumption

To determine the power requirements for the LΩGICTM 4X36 see the label affixed to the side of the product. Alternatively, you may refer to the corresponding specifications chart in the *Technical Information* chapter of this manual.

The listed current rating indicates the maximum current draw during normal operation.

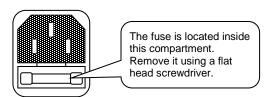
AC Plug

The L Ω GICTM 4X36 comes with a power input cord terminated with an IEC connector on one end and an Edison plug on the other end (US market). If the power cord that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (US)	Screw Color (US)	Wire (Europe)
AC Live	Black	Yellow or Brass	Brown
AC Neutral	White	Silver or Gray	Blue
AC Ground	Green/Yellow	Green	Green/Yellow

Fuse Replacement

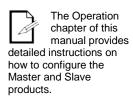
- 1. With a flat head screwdriver, wedge the fuse holder out of its housing and remove the blown fuse from its holder.
- 2. Replace the blown fuse with a fuse of the exact same type and rating.
- 3. Insert the fuse holder back in its place, and reconnect power.





The products must be linked using DMX cable in a daisy chain (serial) fashion. To comply with the EIA-485 standard, no more than 32 products should be connected on one daisy chain without using a DMX optically-isolated splitter. Doing otherwise may result in deterioration of the digital DMX signal.

USITT recommends limiting the total length of the DMX cable (from the first product/controller to the last product) to 300 ~ 455 m (985 ~ 1,500 ft).



DMX Linking

The LQGICTM 4X36 uses a CAT5 cable to link to other units.

- The first unit of each set of LQGICTM 4X36 units must connect to the DMX controller with a CAT5 to XLR male adapter.
- The last LΩGICTM 4X36 unit must use a CAT5 to XLR female adapter to continue the serial link to other DMX compatible units.

You may link the L Ω GICTM 4X36 to a DMX controller using a CAT5 cable. If using other DMX compatible products with the L Ω GICTM 4X36, it is possible to control them individually with a single DMX controller.

If you are not familiar with the DMX standard, or if you need information about the DMX cables needed to link the L Ω GICTM 4X36 to a DMX controller, you may download the "DMX Primer" document from the ILUMINARC® web site: www.iluminarc.com.

DMX Modes

The L Ω GICTM 4X36 uses the CAT5 DMX data connection for its two DMX modes (SpectraWhiteTM and RGB). These modes contain their own separate personalities.

Refer to the *Introduction* chapter for a brief description of these modes and the *Operation* chapter to learn how to configure the $L\Omega GIC^{TM}$ 4X36 to work in these modes. The DMX Values section will give you detailed information regarding the above-mentioned DMX modes.

Master/Slave Linking

The L Ω GICTM 4X36 supports master/slave mode. Several DMX compatible units can be synchronized without a DMX controller in master/slave operating mode.

The Master/Slave mode allows a L Ω GICTM 4X36 unit (the master) running a preconfigured program to control several other L Ω GICTM 4X36 units (the slaves) without requiring a DMX controller. In this mode, all the slave units will operate in unison with the master unit.

When in Master/Slave mode, the L Ω GICTM 4X36 units link to each other using the standard CAT5 connection.



LΩGIC™ 4X36 Product Linking

The following steps provide the easiest method for connecting a set of one or more $L\Omega GIC^{TM}$ 4X36 units to the same DMX cable.

- Connect the RJ-45 plug of the DMX to RJ-45 adapter to the "DMX In" RJ-45 jack on the first LΩGIC™ 4X36 product.
- 2. Connect the XLR male connector of the DMX to RJ-45 adapter directly to the "DMX Out" (female) connector on the DMX controller or to the DMX cable coming from the DMX controller.
- Connect one of the RJ-45 plugs of the signal patch cable to the "DMX Out" RJ-45 jack on the first LΩGICTM 4X36 product.
- 4. Connect the other RJ-45 plug of the signal patch cable to the "DMX In" RJ-45 jack on the second $L\Omega GIC^{TM}$ 4X36 product.
- 5. Continue linking the L Ω GICTM 4X36 products using more signal patch cables, as shown in the diagram below.

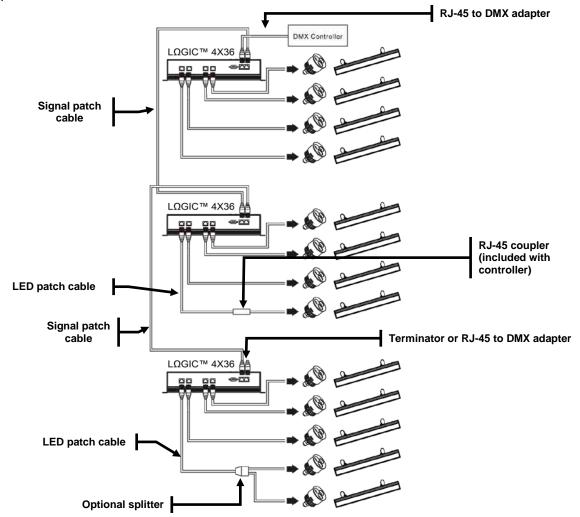
ILUMINARC recommends using a signal terminator after the last L Ω GICTM 4X36 product. The easiest way to assemble a signal terminator is by soldering or crimping a 120 ohms resistor between the terminals corresponding to DATA + and DATA – on a RJ-45 jack. Another method consists in soldering the 120 ohms resistor to a short cable coming out of a RJ-45 plug. Once assembled, connect the terminator to the "DMX Out" connector of the last L Ω GICTM 4X36 product.



Do not use the splitter as a coupler.



All cables must be terminated to a fixture.





Maximum Output Line Loading

The L Ω GICTM 4X36 product has four output lines. This means that the user can combine various output lines to create zones. Each output line has three channels whose names change depending on the selected operation mode.

- · RGB mode: Red, Green, and Blue
- · SpectraWhiteTM mode: Warm, Natural, and Cool

Each channel can support up to twelve (12) LEDs. As a result, the maximum number of LEDs supported by an output line is 36.

Inside the L Ω GICTM products, the LEDs are grouped in clusters of three LEDs each. In an LED cluster, each LED connects to an individual output channel from the L Ω GICTM product. When a product has more than one cluster, the same output channel supports as many LEDs as clusters the product has.

Please see the guide below for the output line loading. This table shows the maximum number of a single type of products that can be loaded onto each of the $L\Omega GIC^{TM}$ 4X36's output lines.

MODEL NAME	TOTAL LED'S	MAX. NUMBER OF CONNECTED PRODUCTS PER OUTPUT
Ilumiline LΩGIC™ 36 RGB	36	1
Ilumiline LΩGIC™ 24 RGB	24	1
Ilumiline LΩGIC™ 24 Optic RGB	24	1
Ilumiline LΩGIC™ 12 Optic	12	3
Ilumiline LΩGIC™ 12	12	3
Ilumipod LΩGIC™ 12 Optic	12	3
llumipod LΩGIC™ Tri-4	12	3
Ilumipod LΩGIC™ 6 Optic	6	6
Ilumipod LΩGIC™ 3 Optic	3	12
llumipod LΩGIC™ Tri-1	3	12

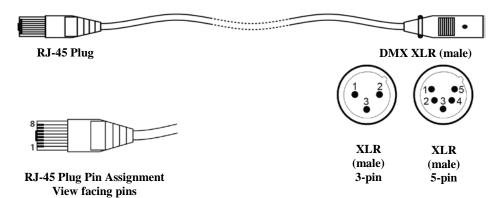
You may also combine different products together, as long as you do not exceed the maximum of 36 LEDs per output line. Please see the following example of a possible combination.

Ilumipod LΩGIC™ Tri-4	12 X 2 = 24	2 products
Ilumipod LΩGIC™ 6 Optic	6 x 2 = 12	2 products
Total	36 LEDs	4 products

When connecting LΩGIC™ products to the LΩGIC™ 4X36 controller, do not exceed the maximum of 12 LEDs per output channel (36 LEDs total for the output line).



Cable Connections



RJ-45 Plug	3-pin XLR Male	5-pin XLR Male
Pin 1: Not Used		
Pin 2: Not Used		
Pin 3: Not Used		
Pin 4: Not Used		Pin 4: Not Used
Pin 5: +5 V		Pin 5: Not Used
Pin 6: Data +	Pin 3: Data +	Pin 3: Data +
Pin 7: Data -	Pin 2: Data -	Pin 2: Data -
Pin 8: GND	Pin 1: GND	Pin 1: GND

Signal Patch cable: Used for linking two LQGICTM 4X36products



RJ-45 Plug	RJ-45 Plug
Pin 1: Not Used	Pin 1: Not Used
Pin 2: Not Used	Pin 2: Not Used
Pin 3: Not Used	Pin 3: Not Used
Pin 4: Not Used	Pin 4: Not Used
Pin 5: +5 V	Pin 5: +5 V
Pin 6: Data +	Pin 6: Data +
Pin 7: Data -	Pin 7: Data -
Pin 8: GND	Pin 8: GND

LED Patch Cable: Used to link the LQGICTM 4X36 to its products.



Pin #	Wire Color	Function
1	White/Orange	Red LED +
2	Orange/White	Green LED +
3	White/Green	Blue LED +
4	Blue/White	Not Used
5	White/Blue	Red LED -
6	Green/White	Green LED -
7	White/Brown	Blue LED -
8	Brown/White	Not Used



Mounting

Before mounting this product, read and follow the safety recommendations indicated in the Safety Notes section (page 2 of this manual).

Orientation

Always mount this product in any safe position while making sure that there is adequate room around it for ventilation, configuration, and maintenance.

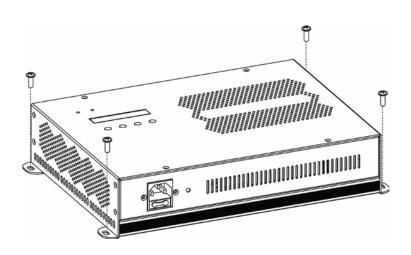
Installation

The L Ω GICTM 4X36 consists of a single product with 4 mounting points. ILUMINARC® recommends following the general guidelines below when mounting the L Ω GICTM 4X36.

- When selecting an installation location, consider ease of access to the product for operation, programming adjustments, and routine maintenance.
- Never mount the product in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect it.
- Make sure that the location where you are mounting the product can support its weight.
 Please see the Technical Specifications section of this manual for the weight requirement of this product.

Procedure

The L Ω GICTM 4X36 has four (4) 5mm screw holes built into the casing which serves as mounting points. Use four (4) screws to attach the product to a flat, dry surface. Make sure that you can access the product for maintenance and programming.



Make sure to mount this product away from any flammable material as indicated in the Safety Notes.

Please consult local electrical code compliance and regulations for any additional installation restrictions.



4. Operation

Control Panel Description

Button	Function
<menu></menu>	Exits from the current menu or function
<set></set>	Enables the currently displayed menu or sets the currently selected value in to the current function
<up></up>	Navigates upwards through the menu list and increases the numeric value when in a function
<down></down>	Navigates downwards through the menu list and decreases the numeric value when in a function

Control Options

You can set the LΩGICTM 4X36 start address in the 001~512 DMX range. This allows for the control of up to 34 products in the 15-channel **RGB+LINE+DMS** personality.

Programming (RGB Mode)

Refer to the *Menu Options* section to learn how the menu options relate to each other. The *Menu Options* section has a *Main* level and a variable number of programming levels for each option.

- To go to an option in the *Main* level, press **MENU**> repeatedly until the option shows on the display. Press **SET**> to select. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press <UP> or <DOWN> until the option or value is displayed. Press <SET> to accept. If there is another programming level, you will see that level's first option. If not, you will see the selected value.
- To exit to the previous menu level, press **<MENU>**.

Mode Selection

- 1. Go to MENU>SETTINGS.
- 2. Select GOTO RGB.
- 3. Select YES?

DMX Addressing

- 1. Go to MENU>DMX ADDRESS.
- 2. Select the starting address [001~512].
- 3. Go to **MENU > OPERATION**.
- 4. Select **DMX**.

DMX Personality

- 1. Go to **MENU>PERSONALITY** and select any DMX personality.
- 2. Make sure to rearrange the DMX addresses of all products in the current DMX universe to avoid address overlapping.

When running the product using a DMX controller, make sure that the Menu>Run is set to DMX.

AUTO 01~10 are fully configured

programs and

AUTO 01~10 consist of two (2)

different, fully

configured programs

giving the user a total of twenty(20) different auto

programs to choose from.

cannot be modified. However, **CUSTOM**

Custom).

01~10 programs are fully customizable (see Edit



Master/Slave

On the Master product:

- 1. Go to MENU>OPERATION and select DMX.
- 2. Go to MENU>PLAY AUTO and select any Auto program.

On each of the Slave products:

1. Go to MENU>OPERATION and select SLAVE.

The slave products will follow the program played by the Master.

Static Colors

- 1. Go to MENU>PLAY STATIC.
- 2. Select an output line L [1~4]
- 3. Select a color or effect **RED**, **GREEN**, **BLUE**, **DIMMER**, and **STROBE**.
- 4. Select a color value [000~255] or a strobe frequency [0~20].

Auto Play

- 1. Go to MENU>PLAY AUTO.
- 2. Select a program **RGB**, or **RGBL** [01~10].
- 3. Select a speed **SP** [001~255].

Custom Play

- 1. Go to MENU>CUSTOM.
- 2. Select a program **CUSTOM** [01~10].

Edit Custom

- 1. Go to **MENU>EDIT**.
- 2. Select a program **C-[01~10**].
- 3. Select a scene **S-[01~20**].
- 4. Select a color **R**, **G**, or **B**.
- 5. Configure the color value [000~255].
- 6. Repeat steps 4 and 5 for the other colors.
- 7. Configure the strobe frequency S [00~20].
- 8. Configure the **Step** and **Fade** timers [000~255].
- 9. Repeat steps 4 to 8 for the other scenes.

RGB to White Setting

When **RGB** TO W is active, the product will automatically use the RGB values for a balanced white look. When inactive, the product will use the most powerful intensity.

- 1. Go to MENU>SETTTINGS>RGB TO WHITE.
- 2. Select **YES** or **NO**.



Whites Setting

- 1. Go to MENU>SETTINGS>CALIBRATION.
- 2. Select a white color WHITE 1~9 or RGB TO WHITE.
- 3. Set a color **R**, **G**, or **B**.
- 4. Configure the color value [000~255].
- 5. Repeat steps 2 thru 4 for the other RGB colors to obtain a white color.

Set Time and Date

- 1. Go to MENU>SETTINGS>CLOCK>EDIT TIME.
- 2. Set Year, Day Of Week, Day, Month, Hour, Min, and Sec.

Set Schedule

- Go to MENU>SCHEDULE. A day of the week or "EVERYDAY" will show on the LCD.
- 2. Select **DOW** or **EVERYDAY**.
- 3. Select **NO.** [01~10].
- 4. Set CUSTOM [01~10], STATIC, RGBL [01~10], RGB [01~10], or PLAY NONE.
- 5. Set Start time [00:00 to 23:59]. Set End time [00:00 to 23:59].

Playing Schedule

1. Go to MENU>PLAY SCHEDULE.

Password

When **KEYLOCK** is active, the product will ask you to enter the password (**<UP>**, **<DOWN>**, **<UP>**, and **<DOWN>**) after 30 seconds of control panel inactivity or upon power up.

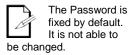
- 1. Go to MENU >SETTINGS.
- 2. Select ON/OFF.

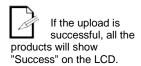
Upload Customs

- 1. Set all products that are going to receive the upload to **SLAVE** operation.
- 2. Disconnect the products from the DMX controller.
- 3. On the product whose custom programs you are going to copy, got to **MENU** >**SETTINGS** and select **UPLOAD**.
- 4. Enter the password and press **<SET>** for the upload to start.

Reset

- 1. Go to **MENU>SETTINGS**.
- 2. Select **RESET CUSTOM** (resets custom programs), **RESET SCHEDULE** (resets schedule), or **RESET ALL** (resets entire product to factory default).
- 3. When **YES** shows, press **<SET>**.







Programming (SpectraWhite[™] Mode)

Refer to the Menu Options section on page 20 to learn how the menu options relate to each other. The Menu Options section has a Main level and a variable number of programming levels for each option.

- To go to an option in the Main level, press **<MENU>** repeatedly until the option shows on the display. Press **<SET>** to select it. This will take you to the first programming level for that option.
- To select an option or value within the current programming level press <UP> or <DOWN> until it shows on the display. Press <SET> to accept it. In this case, if there is another programming level, you will see its first option. Otherwise, you will see the selected value.
- To exit to the previous menu level, press **<MENU>**.

Mode Selection

- 1. Go to **MENU>SETTINGS**.
- 2. Select GOTOWHITE.
- 3. Select YES?

DMX Addressing

- 1. Go to MENU > DMX ADDRESS.
- 2. Select the starting address [001~512].
- 3. Go to **MENU > OPERATION**.
- 4. Select DMX.

DMX Personality

- 1. Go to MENU>PERSONALITY and select any DMX personality.
- Make sure to rearrange the DMX addresses of all products in the current DMX universe to avoid address overlapping.

Master/Slave

On the Master product:

- 1. Go to MENU>OPERATION and select DMX.
- 2. Go to **MENU>MOOD**.
- 3. Select COOL, WARM, or NATURAL.
- 4. Select **DIM[000~255]**

On each of the Slave products:

1. Go to MENU>OPERATION and select SLAVE.

The slave products will follow the program played by the Master.

Static Colors

- 1. Go to MENU>PLAYSTATIC.
- 2. Select an output line L [1~4].
- 3. Select a color or effect COOL, WARM, DIMMER, and STROBE.
- 4. Select a color value [000~255] or a strobe frequency [00~20]

Auto Play

- 1. Go to MENU>MOOD.
- 2. Select a program **COOL**, **WARM**, or **NATURAL**.
- 3. Select **DIM** [000~255].



Whites Setting

- 1. Go to MENU>SETTINGS>CALIBRATION.
- 2. Select a white macro **WHITE** [1~5].
- 3. Configure the color value for **WARM** and **COOL** [000~255].
- 4. Repeat steps 2 and 3 for the other white macros.

Set Time and Date

- 1. Go to MENU>SETTINGS>EDIT TIME.
- 2. Set Year, Day Of Week, Day, Month, Hour, Min, and Sec.

Set Schedule

- Go to MENU>SCHEDULE. A day of the week or "EVERYDAY" will show on the LCD.
- 2. Select **DOW** or **EVERYDAY**.
- 3. Select **NO** [01~10].
- 4. Set WHITE [1~5] or PLAY NONE.
- 5. Set Start time [00:00 to 23:59]. Set End time [00:00 to 23:59].

Playing Schedule

1. Go to MENU>PLAY SCHEDULE.

Password

When KEYLOCK is active, the product will ask you to enter the password (<UP>, <DOWN>, <UP>, and <DOWN>) after 30 seconds of control panel inactivity or upon power up.

- 1. Go to MENU >SETTINGS.
- 2. Select ON/OFF.

Reset

- 1. Go to MENU>SETTINGS.
- 2. Select **RESET ALL** (sets product back to factory default settings).
- 3. When **YES** shows, press **<SET>**.



Menu Options RGB Mode

Main	Programming Steps					Instructions		
1. Play auto	RGB 1~10	RGBL 1~10	SPEE	D	1~255	Choose from 10 automatic programs		
2. Play custom		CUSTO	M 1~10			Choose from 10 user-defined programs		
3. Play Static	L1~4	GR	RED GREEN BLUE DIMMER		EEN LUE		0~255	Configure and/or play a single step program
		STR	OBE		0~20			
4. Play schedule		SCHEDULI	E PLAYIN	G!		Play scheduled program		
5. DMX address		001	~512			Sets DMX starting address		
		EFF	ECT			9-channel mode		
		Re	GB			3-channel mode		
		RG	B+D			4-channel mode		
6.		RGB-	+DMS			6-channel mode		
Personality		RGB-	+LINE			12-channel RGB control over individual lines		
		RGB+LI	NE+DMS		15-channel RGB control over individual lines + dimmer, color macro + strobe			
		so	LID	LID		1-channel mode		
	C-1~10 (custom)		R G B		0~255	Combine Red, Green, and Blue to generate a custom color		
7. Edit		S-1~20	S		0~20	Set the strobe frequency		
custom		(scene)	T			Set the on time		
					0~255	Set the fading time		
	PASS	WORD		ON/OFF		Turn password protection on after 30 seconds of being idle		
	ALLOV				Reserved for future use			
	RESE	T ALL		YES	/NO	Default all settings		
	RESET (CUSTOM		1123	/NO	Erase the custom programs		
	RESET SO	CHEDULE				Erase the schedule		
	UPLOAD	PASSWO	ORD?	[Ent	er Password]	Transfer custom programs from master to slave products		
			TIME N	ow		View the DOW, date, and time		
			YEAI		00~99			
			DOW		SU~SA	-		
8. Settings	CLOCK		DAY		01~31	First DOW Loads		
		EDIT TIME	HOUL		00~12	Edit the DOW, date, and time		
			MIN			-		
					00~59			
	CALIB-	LIB- WHITE 1~9	R		Modify the White macros			
	RATION	RGB TO WHITE	G B		0~255	Configure RGB to WHITE values		
	RGB TO WHITE			YES/NO		[Yes]RGB TO WHITE defines output color when RGB faders are at "255" [No]Max. intensity when RGB faders are at "255"		
	GO ТО WHITE		YES?			Go to SpectraWhite™ mode		



Continued from previous page

Main	Programming Steps					Instructions
	DMX				Work with a DMX controller	
9. Operation		SLA	AVE			Slave mode
		EASY	PLAY			Optional remote
10. Schedule	SUNDAY~S ATURDAY (Different schedules for each DOW)	(Different schedules for each DOW)		M	1~10	After selecting DOW, schedule #, and program, enter
	EVERYDA Y		STATIC		IC	starting and ending time [00:00~23:59]
	(Same schedule for every DOW)		PLAY NONE		ONE	
11. Patch	PATCH 1~6	RG	GB GBL 1~10 TM		1~10	For future use



Menu Options SpectraWhite™ Mode

Main		Programn	ning Step	วร		Instructions
1. Mood	WARM NATURAL COOL	D	IM		1~255	Choose a white effect and intensity
2. Play Static	L1~4 COO WAR DIMM		RM MER	RM 0~255		Configures and/or plays a single step program per output line
		STR	STROBE		0~20	
3. Play schedule		SCHEDULI	E PLAYIN	G!		Playscheduled program
4. DMX Address		001	~512			Sets DMX starting address
			OIO W			2-channel mode
5. Personality			O W+D			3-channel mode
	STUDIO 1				2-channel mode	
	STUDIO 2				4-channel mode	
	SOLID				1-channel mode	
	PASSWORD			ON/OFF		Turns password protection on after 30 seconds of being idle
	RESET ALL			YES/NO		Defaults all settings
	CALIB- RATION V	WHITE 1~5	WARM COOL		0~255	Modify the White macros
	TIME NOW					View the DOW, date, and time
6. Settings	YEAR				2000~2099	
g.)W	SA~SU 01~31 01~12		
			AY			
	EDIT TIM		NTH			Edit the DOW, date, and time
			UR		00~23	
			IN EC		00~59	
	GO TO F	RGB		YF	ES?	Go to RGB mode
7. 0	DMX					Work with a DMX controller
7. Operation		SLA	AVE			Slave mode with Master product
8. Schedule	SUNDAY~SAT (Different schedu DOW EVERYI	les for each	s for each No. 1~1		WHITE 1~5	After selecting DOW, schedule #, and white macro; enter starting and ending time [00:00~23:59]
	(Same schedule every DOW)					



DMX Values RGB Mode

EFFECT

Channel	Function	Value	Percent/Setting
	Red	000 (055	0~100%
1	Step Time	000 Ó 255	When CUS. 01-10 in CH. 7 is activated
	Green	000 & 055	0~100%
2	Step Time	000 Ó 255	When CUS. 01-10 in CH. 7 is activated
3	Blue	000 Ó 255	0~100%
4	Dimmer	000 Ó 255	0~100%
5	Color Macro + White Balance	000 6 010 011 6 035 036 6 060 061 6 085 086 6 110 111 6 135 136 6 160 161 6 185 186 6 210 211 6 215 216 6 220 221 6 225 226 6 230 231 6 240	No Function R: 100% G: Up B: 0% R: Down G: 100% B: 0% R: 0% G: 100% B: Up R: 0% G: Down B: 100% R: Up G: 0% B: 100% R: 100% G: Up B: Up R: 100% G: Up B: Up R: Down G: Down B: 100% White 1: 3,200 K White 2: 3,400 K White 4: 4,900 K White 5: 5,600 K White 6: 5,900 K
		241 \(\times \) 245 246 \(\times \) 250 251 \(\times \) 255 000 \(\times \) 004	White 7: 6,500 K White 8: 7,200 K White 9: 8,500 K
6	Strobe	000 O 004 005 Ó 255	No Function 0~20 Hz
7	Auto + Custom Programs	000 6 020 021 6 030 031 6 040 041 6 050 051 6 060 061 6 070 071 6 080 081 6 090 091 6 100 101 6 110 111 6 120 121 6 130 131 6 140 141 6 150 151 6 160 161 6 170 171 6 180 181 6 190 191 6 200 201 6 210 221 6 255	No function Auto RGB 1 Auto RGB 2 Auto RGB 3 Auto RGB 4 Auto RGBL 5 Auto RGBL 1 Auto RGBL 3 Auto RGBL 5 Custom 1 Custom 2 Custom 3 Custom 4 Custom 5 Custom 7 Custom 7 Custom 8 Custom 9 Custom 9 Custom 10 No function
8	Auto Programs Speed	000 Ó 255	Slow-fast
9	Zone Selection	000 6 009 010 6 029 030 6 049 050 6 069 070 6 089 090 6 109 110 6 129 130 6 149 150 6 169 170 6 189 190 6 209 210 6 219 220 6 229 230 6 239 240 6 249 250 6 255	All Lines Line 1 Line 2 Line 3 Line 4 Line 1,2 Line 2,3 Line 3,4 Line 1,4 Line 1,3 Line 2,4 Line 1,2,3 Line 2,4 Line 1,2,3 Line 2,3,4 Line 1,2,4 Line 1,2,4 Line 1,3,4 All Lines



DMX Values RGB Mode (Cont.)

RGB

Channel	Function	Value	Percent/Setting
1	Red	000 Ó 255	0~100%
2	Green	000 Ó 255	0~100%
3	Blue	000 Ó 255	0~100%

RGB + D

Channel	Function	Value	Percent/Setting
1	Red	000 Ó 255	0~100%
2	Green	000 Ó 255	0~100%
3	Blue	000 Ó 255	0~100%
4	Dimmer	000 Ó 255	0~100%

RGB + DMS

Channel	Function	Value	Percent/Setting
1	Red	000 Ó 255	0~100%
2	Green	000 Ó 255	0~100%
3	Blue	000 Ó 255	0~100%
4	Dimmer	000 Ó 255	0~100%
5	Color Macro + White Balance	000 \(\phi \) 010 011 \(\phi \) 035 036 \(\phi \) 060 061 \(\phi \) 085 086 \(\phi \) 110 111 \(\phi \) 135 136 \(\phi \) 160 161 \(\phi \) 185 186 \(\phi \) 210 211 \(\phi \) 215 216 \(\phi \) 225 226 \(\phi \) 235 236 \(\phi \) 240 241 \(\phi \) 245 246 \(\phi \) 255	No Function R: 100% G: Up B: 0% R: Down G: 100% B: 0% R: 0% G: 100% B: Up R: 0% G: Down B: 100% R: Up G: 0% B: 100% R: 100% G: Up B: Down R: 100% G: Up B: Up R: Down G: Down B: 100% White 1: 3,200 K White 2: 3,400 K White 3: 4,200 K White 4: 4,900 K White 4: 4,900 K White 5: 5,600 K White 7: 6,500 K White 8: 7,200 K White 9: 8,500 K
6	Strobe	000ó 255	0~20 Hz

RGB + LINE

Channel	Function	Value	Percent/Setting
1	Red - 1	000 Ó 255	0~100%
2	Green - 1	000 Ó 255	0~100%
3	Blue - 1	000 Ó 255	0~100%
4	Red - 2	000 Ó 255	0~100%
5	Green - 2	000 Ó 255	0~100%
6	Blue - 2	000 Ó 255	0~100%
7	Red - 3	000 Ó 255	0~100%
8	Green - 3	000 Ó 255	0~100%
9	Blue - 3	000 Ó 255	0~100%
10	Red - 4	000 Ó 255	0~100%
11	Green - 4	000 Ó 255	0~100%
12	Blue - 4	000 Ó 255	0~100%



RGB + LINE + DMS

Channel	Function	Value	Percent/Setting
1	Red - 1	000 Ó 255	0~100%
2	Green - 1	000 Ó 255	0~100%
3	Blue - 1	000 Ó 255	0~100%
4	Red - 2	000 Ó 255	0~100%
5	Green - 2	000 Ó 255	0~100%
6	Blue - 2	000 Ó 255	0~100%
7	Red - 3	000 Ó 255	0~100%
8	Green - 3	000 Ó 255	0~100%
9	Blue - 3	000 Ó 255	0~100%
10	Red - 4	000 Ó 255	0~100%
11	Green - 4	000 Ó 255	0~100%
12	Blue - 4	000 Ó 255	0~100%
13	Dimmer	000 Ó 255	0~100%
14	Color Macro + White Balance	000 o 010 011 o 035 036 o 060 061 o 085 086 o 110 111 o 135 136 o 160 161 o 185 186 o 210 211 o 215 216 o 220 221 o 225 226 o 230 231 o 235 236 o 240 241 o 245 246 o 250 251 o 255	No Function R: 100% G: Up B: 0% R: Down G: 100% B: 0% R: 0% G: 100% B: Up R: 0% G: Down B: 100% R: Up G: 0% B: 100% R: 100% G: Up B: Down R: 100% G: Up B: Up R: Down G: Down B: 100% White 1: 3,200 K White 2: 3,400 K White 3: 4,200 K White 4: 4,900 K White 5: 5,600 K White 6: 5,900 K White 7: 6,500 K White 8: 7,200 K White 8: 7,200 K White 9: 8,500 K
15	Strobe	000ó 255	0~20 Hz

SOLID

Channel	Function	Value	Percent/Setting
1	Master Dimmer	000 Ó 255	0~100%



DMX Values SpectraWhite™ Mode

STUDIO W

Channel	Function	Value	Percent/Setting
1	Warm White	000 Ó 255	0~100%
2	Cool White	000 Ó 255	0~100%

STUDIO W+D

Channel	Function	Value	Percent/Setting
1	Dimmer	000 Ó 255	0~100%
2	Warm White	000 Ó 255	0~100%
3	Cool White	000 Ó 255	0~100%

STUDIO 1

Channel	Function	Value	Percent/Setting
1	Dimmer	000 Ó 255	0~100%
2	White Macro	051 Ó 080 081 Ó 110 111 Ó 140	White 1: 3200 K White 2: 3400 K White 3: 4500 K White 4: 4900 K White 5: 5600 K

STUDIO 2

Channel	Function	Value	Percent/Setting
1	Master Dimmer	000 Ó 255	0~100%
2	Warm White	000 Ó 255	0~100%
3	Cool White	000 Ó 255	0~100%
4	White Macro	051 Ó 080 081 Ó 110 111 Ó 140	White 1: 3200 K White 2: 3400 K White 3: 4500 K White 4: 4900 K White 5: 5600 K
5	Strobe	000 ර 255	0~20 Hz

SOLID

Channel	Function	Value	Percent/Setting
1	Dimmer	000 Ó 255	0~100%



5. Technical Information

System Maintenance

To maintain optimum performance and minimize wear, the user should clean the product frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a rule, the user should clean the product at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

The cleaning frequency depends on the environment in which the product operates. Damp, smoky, or particularly dirty surrounding can cause greater accumulation of dirt on the product's optics.

To clean a product, follow the recommendations below:

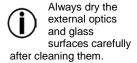
- 1. Unplug the product from power.
- 2. Wait until the product is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and reachable internal components.
- 4. Apply the solution directly to the cloth or tissue and drag any dirt and grime to the outside of the product.

Product Repairs

ILUMINARC® strongly advises you against attempting any repairs to this product unless you are an authorized ILUMINARC® technician.

ILUMINARC® presents the information contained in the Troubleshooting Table as a guide only. In most cases, opening the product's housing will invalidate its warranty, unless there is a written indication to the contrary.

If the product has fans, make sure that you never spin a fan if cleaning the product with compressed air.







Troubleshooting Guide

Symptom	Cause(s)	Action(s)	
Consent low light intensity	Dirty lens assembly	Clean the product regularly	
General low light intensity	Misaligned lens assembly	Return for service to Iluminarc®	
	Faulty LED PCB	Return for service to Iluminarc®	
No LED illuminates	Faulty LED patch cable	Return for service to Iluminarc®	
	Faulty LED driver	Return for service to Iluminarc®	
	Faulty LED	Return for service to Iluminarc®	
One LED does not illuminate	Faulty LED patch cable	Return for service to Iluminarc®	
	Faulty LED driver	Return for service to Iluminarc®	
Circuit breaker/fuse keeps	Excessive circuit load	Check total load placed on the electrical circuit	
tripping/blowing	Short circuit along the power wires	Check for a short in the electrical wiring	
	No power	Check for power on power outlet	
Due duet does not nevien in	Loose or damaged power cord	Check power cord	
Product does not power up	Blown fuse	Replace fuse	
	Faulty internal power supply	Return for service to Iluminarc®	
	Wrong DMX addressing	Check Control Panel and product addressing	
	Damaged DMX cables	Replace DMX cables	
Product does not respond to DMX	Wrong polarity on the controller	Check polarity switch settings on the controller	
DMX	Loose DMX cables	Check cable connections	
	Faulty DMX interface	Return for service to Iluminarc®	
	Faulty Display/Main board	Return for service to Iluminarc®	
	Non DMX compliant cables	Use only DMX compatible cables	
	Bouncing signals	Install terminator as suggested	
DMX signal problems	Long cable / low level signal	Install an optically coupled DMX splitter right after the product with the strong signal	
Diviza signai problems	Too many products Install an optically coupled DMX after product #32 or before		
	Interference from AC wires	Keep DMX cables separated from power cables or fluorescent/black lights	

LED Disclaimer

LED Life

ILUMINARC® rates LED lifetime based on lumen depreciation of 70% of the original output, with data provided by the manufacturer of the LED. Data from the manufacturer of the LED are not independently verified or measured by ILUMINARC®. When the product is operating in optimal environmental conditions, the LED lifetime is rated to be 50,000 to 70,000 hours by the LED manufacturer.

LED Binning

LED manufacturers sort LEDs into "bins", based on variances in color, output intensity and the frequency at which the semiconductor operates. ILUMINARC® strives to hold its LED manufacturers to the highest standards of binning to optimize consistency in output from product to product. However, the availability of a single bin cannot be guaranteed. With that in mind, ILUMINARC® has developed a rigorous control system to seek the best achievable consistency in color and output.

Color Rendering Index (CRI)

CRI is an industry standard method to compare properties of different types of light sources. There are known limitations and inconsistencies related to CRI. Results may vary depending on the environmental factors involved. For this reason, the US Department of Energy (DOE) states that CRI should be considered as one point of reference among others in evaluating white LED products and systems.

The following is an excerpt of recommendations from the DOE:

- Identify the visual tasks to be performed under the light source. If color fidelity under different light sources is critically important (for example, in a space where color or fabric comparisons are made under both daylight and electric lighting), CRI values may be a useful metric for rating LED products.
- 2. CRI may be compared only for light sources of equal CCT. This applies to all light sources, not only to LEDs. Also, differences in CRI values of less than five points are not significant, e.g., light sources with 80 and 84 CRI are essentially the same.
- 3. If color appearance is more important than color fidelity, do not exclude white light LEDs solely on the basis of relatively low CRI values. Some LED products with CRIs as low as 25 still produce visually pleasing white light.
- 4. Evaluate LED systems in person and, if possible, on-site when color fidelity or color appearance are important issues.

Source: DOE publication: PNNL-SA-56891, January 2008



Returns Procedure

The user must send the merchandise prepaid, in the original box, and with its original packing and accessories. ILUMINARC® will not issue call tags.

Call ILUMINARC® and request a Return Merchandise Authorization Number (RMA #) before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

The user must clearly label the package with a Return Merchandise Authorization Number (RMA #). ILUMINARC® will refuse any product returned without a RMA #.

Once you receive the RMA #, please include the following information on a piece of paper inside the box:

- Your name
- · Your address
- · Your phone number
- · The RMA #
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper FedEx packing or double-boxing is the shipping method ILUMINARC® recommends.

Claims

The carrier is responsible for any damage incurred during shipping. Therefore, if the received merchandise appears to have damages caused during shipping, the customer must submit the damage report and any related claims with the carrier, not ILUMINARC®. The customer must submit the report upon reception of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must make claims to ILUMINARC® within seven (7) days of receiving the merchandise.

Contact Us

World Wide

General Information

ILUMINARC® 5200 NW 108th Avenue

Sunrise, FL 33351 Voice: (954) 923-3680

Fax: (954) 929-5571

Email: info@iluminarc.com

Customer Support

Voice: (954) 923-3680 (ext. 4000)

Fax: (954) 756-8015

Email: tech@iluminarc.com

World Wide Web www.iluminarc.com



ILUMINARC® reserves the right to use its own discretion to repair or replace returned product(s).

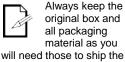
DO NOT write

directly on the box. Instead,

the RMA#

write it on a properly

affixed label.



product back to ILUMINARC®.



Technical Specifications

Dimensions and	Length	Width	Height	Weight
Weight	12.7 in (323 mm)	9.0 in (226 mm)	2.7 in (68 mm)	6.2lbs (2.8 kg)
	Notes Dimensions in inc	1	-4 -4:1 -4:-:t	

Note: Dimensions in inches rounded to the nearest decimal digit.

		_	
Electrical	Power Supply Type	Range	Voltage Selection
	Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging
	Parameter	120 V, 60 Hz	230 V, 50 Hz
	Consumption	180 W (1.5 A)	161 W (0.7 A)
	Inrush current	.4 A	.6 A
	Power I/O	Input	Output
	Connectors	IEC	N/A
	Cord plug	Edison	N/A
Light Source	Туре	Power	Lifespan
Ū	N/A	N/A	N/A
	Color	Quantity	Current
	Determined by Product	N/A	N/A
Photo Optic	Parameter	Optics	
·	Illuminance @ 5 m	N/A	
	Beam angle	N/A	
	Field angle	N/A	
Thermal	Max. External Temperature	Cooling System	
	104° F (40° C)	Convection	
DMX	I/O Connectors	Connector Type	Channel Range
	CAT 5	Sockets	1, 2, 3, 4, 5, 6, 9, 12, 15
Ordering	LΩGIC™ 4X36		
J	34x36001		



